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AUTHORS: Kohrinskiv. A. Ye.; Koliskor, A. Sh.; Levkovskiy, Ye. I.; Popov, V. Ye.; 48 Sergeyev, V. I.	
ORG: Institute of Machine Science, State Committee on Machine Construction under Gosplan SSSR and the Academy of Sciences, SSSR (Institut mashinovedeniys, Gosudarstvennogo komiteta po mashinostroyeniyu pri Gosplane SSSR i Akademii nauk SSSR) TITLE: A self-adjusting system of programmed machine control	
SOURCE: AN SSSR. Vestnik, no. 9, 1965, 52-56 TOPIC TAGS: self adaptive control. precision finishing recommendation and the second statements are second statements and the second statements are second statements and second statements are second statements and second statements are	
ABSTRACT: Causes of production errors and means of avoiding them in the case of programmed metal parts manufacture are discussed. It is pointed out that many factors having a significant effect on the accuracy and productivity of work processes cannot be entirely accounted for in preliminary process programming and hence must be accounted for in a self-adjusting control system. Examples of the hard-to-control factors are geometric machining errors, heat and elastic deformation of machine units, and others. The principal feature of the self-adjustment mechanism is an "ability" to absorb information on the results of previous work and to make appropriate adjustments in the process control program for succeeding articles. An example is given of a	
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self-adjusting program-controlled cutting device used in the production of blades for turbojet compressors. A sketch of the cutting configuration is shown in Fig. 1.

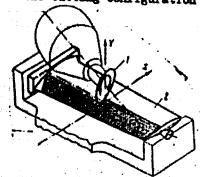


Fig. 1.

The milled piece 1 moves relative to the cutter 2 as directed by a program controlling motion of the cutter along the axes X and Y. The machined article passes from the milling tool shown to a measuring device which evaluates machining errors. From the measurements obtained, signals are generated. These cause adjustments to be made in the program controlling the next stage in the machining process for this article. A description and photographs of the major equipment used in the process are given. Experimental tests of the self-adjustment method resulted in marked reductions in machining errors in the case of the compressor blade cutting. Orig. art. has: 5 figures

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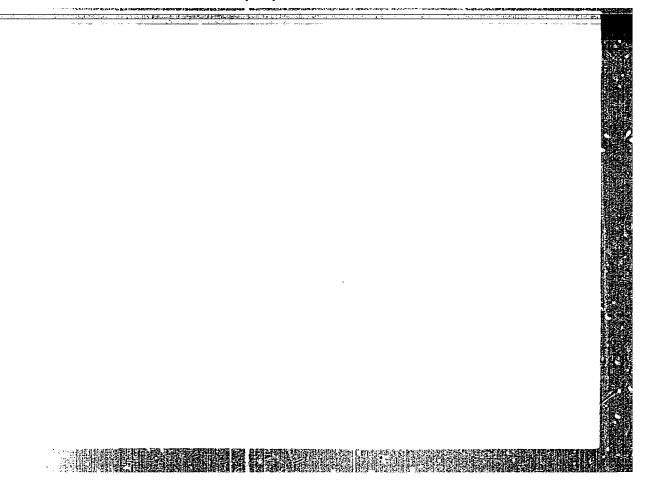
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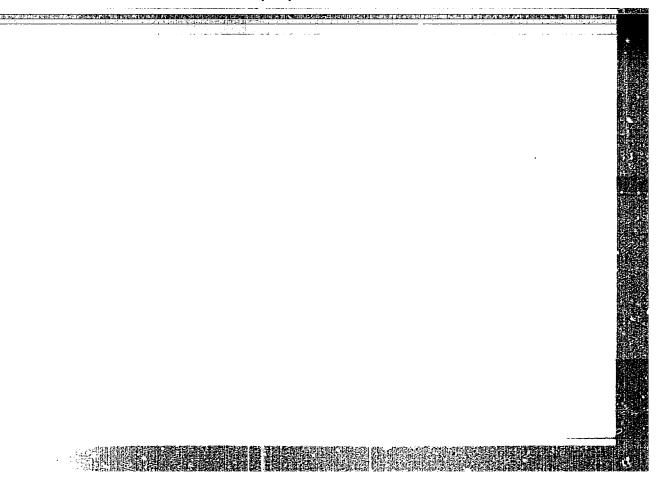
[Current problems in the theory of machines and mechanisms] Sovremennye problemy teorii mashin i mekhanismov. Moskva, Nauka, 1965. 342 p. (MIRA 19:1)

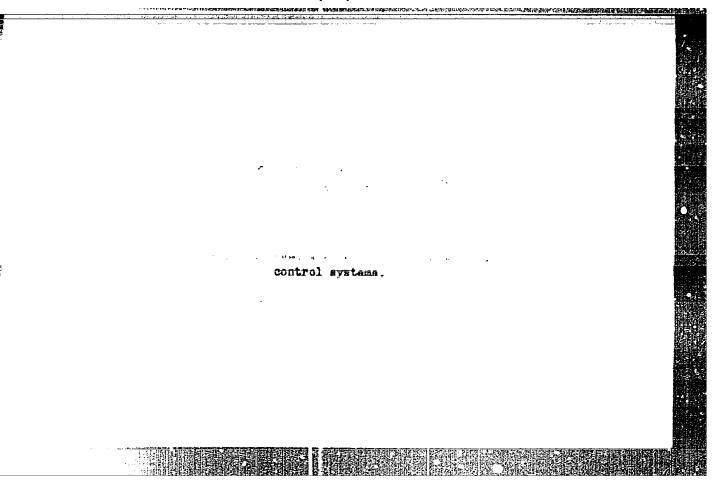
1. Moscow. Gosudarstvennyy nauchno-issledovatel'skiy institut mashinovedeniya.

ORG: none TITIE: Dynamics and stability of systems containing two impact pairs SOURCE: Mashinovedeniye, no. 4, 1965, 3-16 TOPIC TAGS: control system stability, perturbation ABSTRACT: As a rule, the construction of an adequate dynamic model of a vibroimpact system presents no difficulties, and its investigation permits the most important properties and behavior of the system to be studied. However, the mechanisms of machines, instruments and control systems may contain several colliding elements, as well as a large number of kinematic pairs whose construction causes certain nominal clearance values, and it is by no means always possible to construct a simple dynamic model anabling the most important properties of an initial system to be ascertained and studied. Accordingly, existing methods of investigating the dynamics and stability of vibroimpact systems are limited in this sense and require further development. The present article shows the possibility of generalizing developed methods for the analysis of dynamics and stability in the case of systems containing two impact pairs. The article begins by discussing questions involved in the construction of dynamic models Cord 1/2 UDG: 531,395	L 27923-66 EWT(d)/EWP(v ACC NR: AP6017759)/EWP(k)/EWP(h)/EWP(l) BC SOURCE CODE: UR/	0380/65/000/004/0003/0014
SOURCE: Mashinovedeniye, no. 4, 1965, 3-16 TOPIC TACS: control system stability, perturbation ABSTRACT: As a rule, the construction of an adequate dynamic model of a vibroimpact system presents no difficulties, and its investigation permits the most important properties and behavior of the system to be studied. However, the mechanisms of machines, instruments and control systems may contain several colliding elsments, as well as a large number of kinematic pairs whose construction causes certain nominal clearance values, and it is by no means elways possible to construct a simple dynamic model enabling the most important properties of an initial system to be ascertained and studied. Accordingly, existing methods of investigating the dynamics and stability of vibroimpact systems are limited in this sense and require further development. The present article shows the possibility of generalizing developed methods for the analysis of dynamics and stability in the case of systems containing two impact pairs. The article begins by discussing questions involved in the construction of dynamic models		(Moscow); Tyves, L. I. (Moscow)	22
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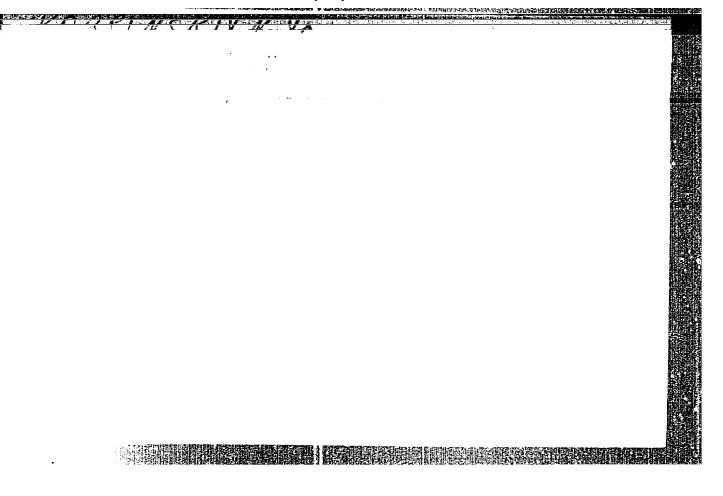
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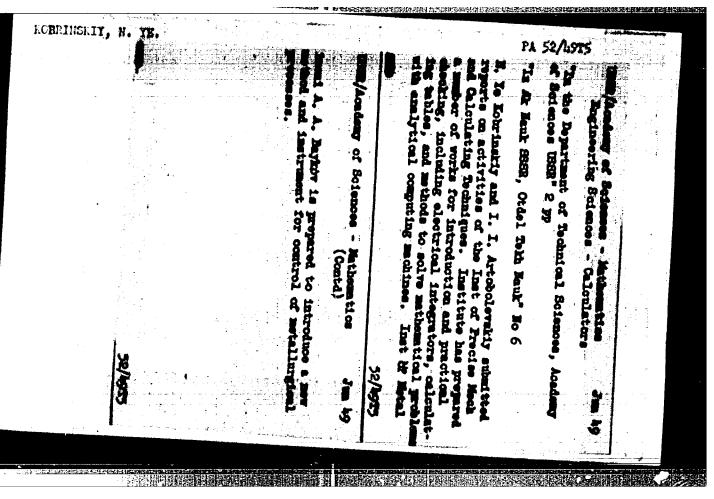
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Matematicheskiye mashiny nepreryvnogo deystviya. Osnovy ikh AID 702 - X

publications dealing with the construction and methods of operation of analog computing machines. It is more extensive, better presented, and represents more research than the standard American publication by the Engineering Research Associates, High-Speed Computing Devices (McGraw-Hill, 1950) which was TEXT DATA

Coverage: This book deals with many questions relating to the construction of mathematical machines of continuous operation, s. A. Gershkorin of Leningrad Polytechnical Institute, I.S. Brun and V. A. Trapeznikov, Members of the Academy of Sciences, USSR, and scientists like N. V. Korol'kov, B. A. Volynskiy, V.P.Lebedyev, V. V. Ushakov, A. A. Fel'dbaum, V. S. Luk'yanov, Yu.Yu. Barilevskiy, B. V. Rameyev, V. N. Ryazankin, P. G. Khomenko, S. K. Neslukhovskiy and others. It includes detailed instructions for the use of analog computer machines, which are based mainly on wariations. Digital computer machines are omitted. Many papers

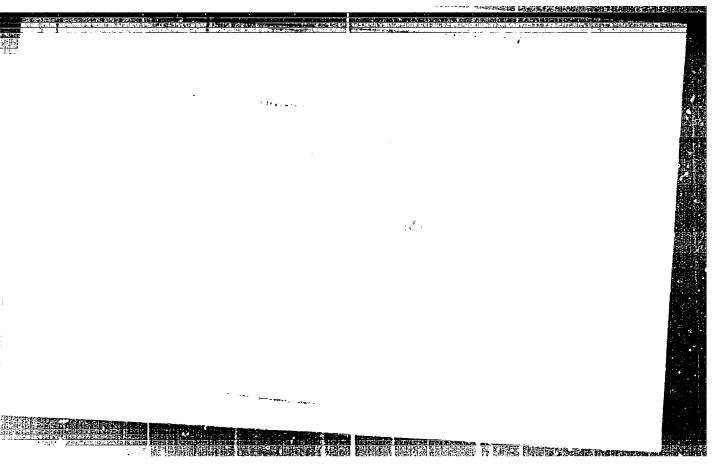
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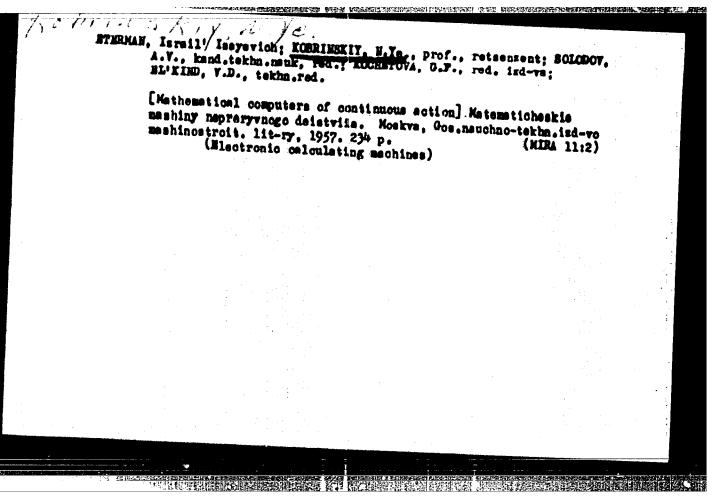
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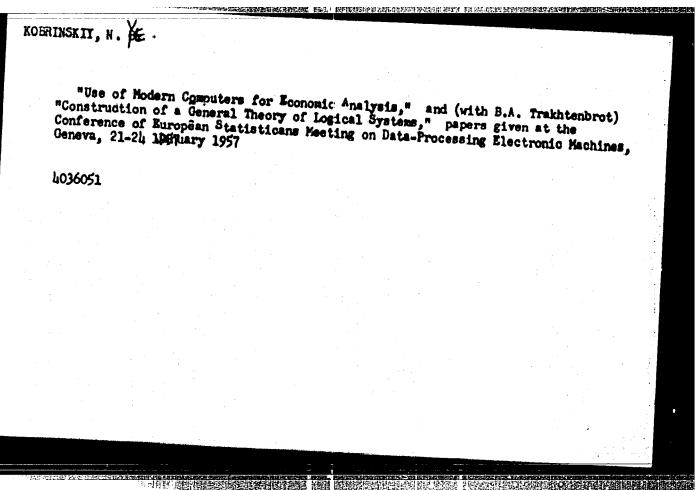


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paper presented at the Saminars on Cybernetics at Moscow University during the 1956-57 school year.

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GEL'FOED, A.; KARANDETEV, K.; CHISTYAKOV, M.; SHIMILOVSKIY, H.; INVIN. N.;
THEMATOV, V.; KORRIENKIY, H.

V.H. Mil'shtein; obituary, Maktrichestvo no.4:94 Ap 158.

(Mil'shtein, Viktor Hammovich, d. 1958)

(MIRA 12:5)

AUTHORS:

Kobrinskiy, N., Professor, Pekelis, V.

29-3-7/25

TITLE:

A Dispassionate Partner (Besstrastnyy partner)

PERIODICAL:

Tekhnika Molodeshi, 1958, V. 26, Nr 3, pp. 10-12 (USGR).

ABSTRACT:

The first chess-playing automaton was built by the Hungarian mechanic Farkash Kempelen in 1769 and made a triumphant sweep all round the world. It burnt, however, in a fire in Philadelphia and the whole humbug was exposed. The Spanish engineer Torres Kevedo built a real automaton in 1890. Yet this automaton won only with a specific opening of the game. Recently, the chessamateurs were excited by a sensational news. A new machine was sitting at the chess-board, viz. the electronic calculating-machine. It is known, in the age of progress - that the brains of a man are the backbone of any machine, no matter how clever it is. With every game, even the most simple one, opposing interests meet and the adversary tries to exploit to his own advantage the mistakes and errors

committed by his antagonist.

Mathematic tried to disclose the secret of the complicated competition between reasonable beings and to determine its rules. The mathematicians Neyman, Uold, and others succeeded approximately 30

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A Dispassionate Partner

29-3-7/25

years ago in establishing the bases of the mathematical theory of playing. This is of great fundamental importance and of prace tical application in economics, strategy and other fields. In the theory of playing it is proved that the issue of a game of chess depends on both the opening and the selected strategy. Our attachment to chess, however, is based on the very fact that we do not know the mathematical solution of this game. The Belgian mathematician W. Kraychik tried to calculate, at least approximately, the possible number of variations. This number amounts to 2.10116. The chess-amateurs must not get excited: if the whole population of the world would continuously play chess and make a move each second, not less than loloo centuries would be necessary for playing the whole lot of variations. The game of the automaton is based on a regulating system permitting to make in every situation the better or the correct move. But there are also games the issue of which depends merely on a chance, e. g. roulette and lotto. In this case both men and machine must reply at random. Concluding, we want to mention a game in which the machine - what is amasing proved to be the stronger adversary. This game is based upon a random misleading of the partner in which case the chances to win are fifty-fifty. The machine, however, discovered unconscious rules governing the questioning by men, and won. What is the purpose of

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A Dispassionate Partner

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all this? Is there any importance with respect to economy or sport? It may be assumed with reason that men will never seriously compete with machinery. Just as no competition is arranged between men and machine. Yet with testing the electronic calculating machine in playing, we discover new unexpected possibilities which most likely were not imagined by their inventors.

There are 3 figures.

AVAILABLE: Library of Congress.

 nathematical computers - Applications 2. Chess playing machines - USSR

Card 3/3

28(2)

PHASE I BOOK EXPLOITATION

80V/2616

Kobrinskiy, Natan Yefimovich, and Viktor Davydovich Pekelis

Bystreye mysli (Faster Than Thought) [Moscow] Isd-vo TsK VLKBN "Molodaya gwardiya", 1959. 588 p. 90,000 copies printed.

Ed.: V. Fedchenkoj Tech. Ed.: A. Kovalev.

PURPORE: This book is intended for the general reader with some education but without a mathematical background.

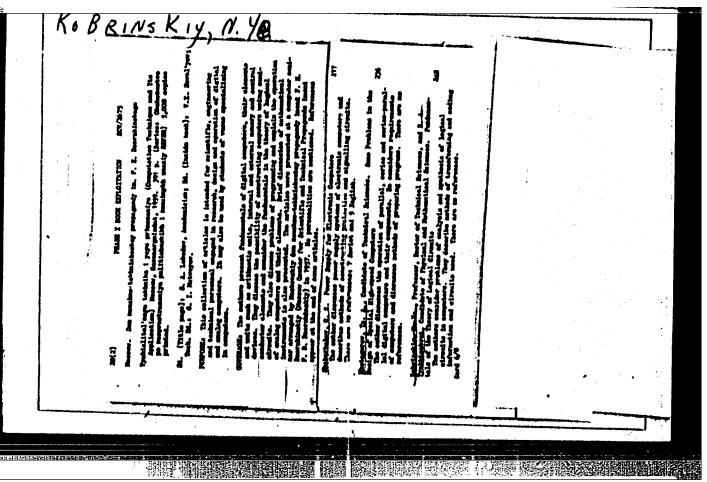
COVERAGE: The book contains a discussion of the computer, its fundamental principles, and some of its applications, written in popular style and humorously illustrated. The authors discuss the history of counting and number systems and the development of modern computers from the time of primitive computing devices like the abacus. They also discuss the logic, basic components, and fantastic speeds of present-day computers. Advantages and discoventages of computers are discussed. No personalities are mentioned. There are no references.

1/5

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The birth of a science		11 19 26	 ;
Computing center in the desert		36	
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Tables, which double the life of astronomers	;	55	
One hour of history		53 43	
Before the jump		50	
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A guide to action			
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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420001-2"

KOBRINSKIX, N. YK. and PEKELIS, V. D.

Rystreve mysli / Taster Than Thought / Publishing House of the Young Quard, 1959, 389 pages

 Management and the second seco	
Mechanisation of economic calculations a calculating machines. Vop. ekon. no.7:34	with the aid of electronic-
(Machine accounting)	(HT'A 12:11)
	. 1974 1874

28(2)

80Y/25-59-10-6/48

AUTHOR:

Kobrinskiy, N.Ye., Professor, Doctor of Technical

Bolences

TITLE:

The Electronic Computer Solves the Problem

PERIODICAL: Nauka i shizn', 1959, Nr 10, pp 17-22 (USSR)

ABSTRACT:

The article gives a survey on various types of computers, their use in industrial planning, in the population's supply and in book-keeping. The author reports on the historical development of computing machines and states that nowadays, more than 500 types of keyboard counting machines are being manufactured, beginning from the most simple adding machine up to the complicated machines widely used for carrying out economic accounts. In the Soviet Union, more than 3,500 computing stations and offices have been established which are equipped with keyboard computers and perforated computers. The author gives some examples of the application of computers in

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807/25-59-10-6/48

The Electronic Computer Solves the Problem

automobile industry planning and in national economy. However, the keyboard and perforated computers do not cope with hundreds of millions of computing operations for preparing the balance of production and consumption. For this purpose, electronic automatic computers have been developed which solve the most complicated problems in a short time. Computers performing 10 - 20,000 operations per second need 115-200 hours for computing the interrelationships embracing 800 various production units. The Pervyy gosudarstvennyy podshipnikovyy maved (First State Bearing Plant) has to work out about 400,000 orders monthly, containing more than 25 million figures and to fill out more than 100 million short lines in documents. Investigations carried out in the Soviet Union have shown that the cost of accounts performed with the aid of electronic machines, is 10-15 times lower compared with the cost of these works carried out on

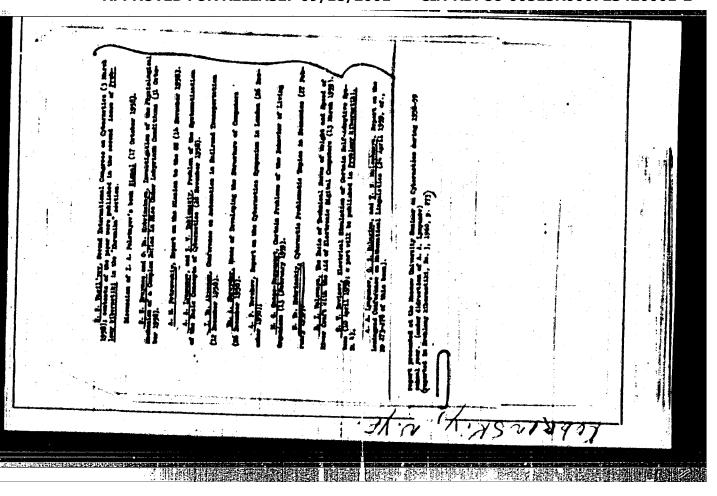
Card 2/4

807/25-59-10-6/48

The Electronic Computer Solves the Problem

perforated counting machines. At enterprises with 15,-20,000 workers, the use of electronic computers saves about 1 million rubles annually only for the maintenance of the book-keeping accounting apparatus. Electronic machines are also widely used in the system of the Gosbank of the Boviet Union. For the solution of many economic planning problems, universal electronic computers can be used, e.g. the "BESM" (High-speed electronic computer), "Strela" and "Ural" type computers. They are intended for solving the various mathematical problems including problems which arise when accounting the links between various branches. For accounting the links between various branches. For accounting the links between various with a very high economic accounts, special computers with a very high economist" will be able to account wages for 15-20,000 economist" will be able to account wages for 15-20,000 workers within 50-60 hours and to determine the prime

Card 3/4



APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420001-2"

KOBRINSKIY. Natan Yefimovich; TRANSHINBROT, Boris Avramovich;

BIRTUROV, B.V., red.; FURASHUVA, N.Ya., tekhn. red.

{Introduction to the theory of finite automata} Vvedenie v teroitu konschnykh avtomatov. Moskva, Gos.izd-vo fiziko-zatem. lit-ry, 1962. 404 p. (MIRA 15:5)

(Automatic control) (Electronic calculating machines)

(Electronic digital computers)

ANISIMOV, B.V.; CHETVERIKOV, V.N.; KOPHINSKIY, H.Ye., doktor tekhn. nauk, prof., retsenzent; TAKHVANOV, G.I., kand. tekhn. nauk, retsenzent; DOHROGURSKIY, S.O., doktor tekhn. nauk, red.; YELISEYEV, M.S., red. isd-va; EL'KIRD, V.D., tekhn. red.

[Fundamentals of the theory and design of digital computers]
Osnovy teorii i proektirovaniia tsifrovykh vychislitel'nykh
mashin. Hoskva, Mashgis, 1962. 431 p. (MIRA 15:10)
(Electronoc digital computers)

KOBRINSKIY, Natan Yefimovich; PEKELIS, Viktor Davidovich;
LIVANOV, A., red.; IECOROVA, I., tekhn. red.

[Faster than thought] Bystree mysli. Moskva, Molodsia gvardiia, 1963. 469 p. (MIRA 16:11)

(Cybernetics)

ANISIMOV, B.V.; CHETVERIKOV, V.N.; KORRINGKIT, N.Ye., doktor tekhn. nauk prof., retserzent; SKOLOV, V.R., doktor tekhn. nauk prof., retserzent

[Principles of the theory and design of digital computers]
Osnovy teorii i proektirovaniia teifrovykh vychislite!

rykh mashin. 2., ispr. i dop. izd. Moskva, Mashinostroenie, 1965. 483 p. (MIRA 18:3)

MCG HEW ICH, S.; ECRRIBERTY, S.

Piber made from weel wastes. Prom.koop.me.8:28-29 Ag '55. (MIRA 9:1)

1.Tekhnicheskiy rukoveditel' arteli imeni 30-letiya Meskevekego
Soveta (for Megilevich).2.Wachal'nik teckha vtorichaogo syr'ya (for
Kobrinskiy)

(Wool industry)

Almerandov, P.; Eucayev, G.; Korrieriy, S.

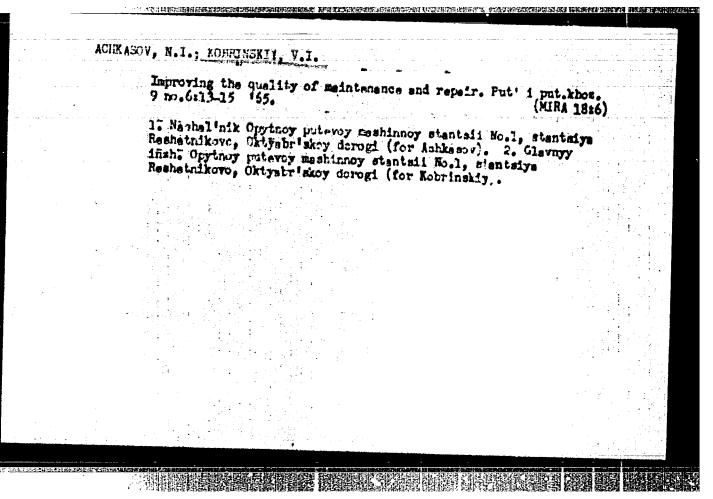
Conference in factories. FEO 2 no.7:58 Jl '60.

(MIRA 13:7)

1. Uchenyy sekretar' Rostovskogo oblastnogo pravleniya
Ruchmo-tekhnichesbogo oblabbestva mashproma (for Aleksandrov).

2. Starshiy inshemer golovnogo Spetsial'nogo konstruktorskogo
byuro (for Rugsyev).

(Machinery industry—Technological innovations)



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ACC HRI AP6005886 (A) SOURCE CODE: UR/0352/65/000/010/0030/003	
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rifik: Work with poisons is harmless if protected	
SOURCE: Kolkhozno-sovkhoznoye proizvodstvo, no. 10, 1965, 30-31	
TOPIC TAGS: agriculture, chemical protective clothing, gas mage	
and toric material loss agricultural workers dealing with potent	ous
are used. Reference that least 100 m away from the area where chemical	wed
years old are admitted to men 18 to 55 years old and women 18 to 5	
(ShB-1) types free shoes, trespirators of U-2K and "Lepestok-200"	
prescribed for work with DDT, TMTD-50 and other disinfectants. Acid-proof clothing, "374" rubber gloves, PO-3 goggles and F-46K respirator	ea : □ : 1 □ : 1 • : 1 • : 1
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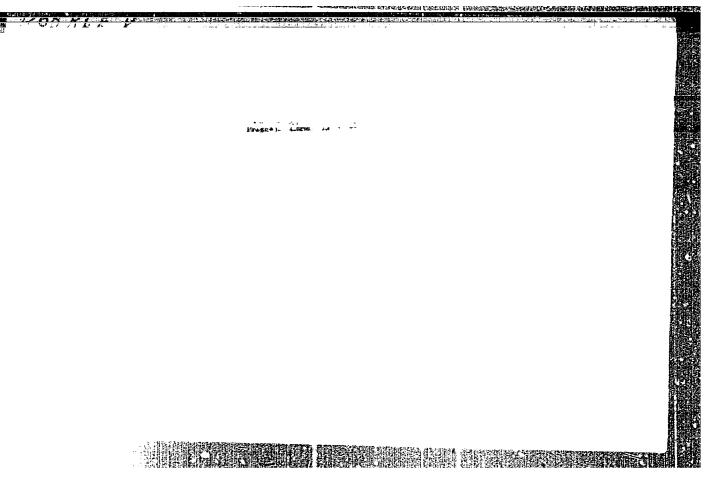
ACC MR. AP6005886 are to be used in handling polychlorpinene, chlorophos, metaphos, etc. In conducting funigation, special gas-masks of industrial type or of GP-40 divil type must be employed. It was mentioned that a new respirator of RU-60 type will be produced in 1966. The handling and preservation of respirators was briefly discussed and the orderly use of clothing, gloves, goggles and other protective articles was explained. The duration of the workday must not exceed 6 hours in case of poison-bearing products and 4 hours when dealing with high-toxic chemicals. Orig. art. has: 2 photos showing the U-2K and R-60 respirators. SUB CODE:0602 / SUEM DATE: None / ORIG REF: 000 / OTH REF: 000

ACC NR. AP6031981

mask with an 'adjustable elastic headband and plastic frame containing a disposable polymer-fiber filter. It has vents for inhalation and exhalation, the latter serving also to expel excess moisture. All parts in the mask are replaceable. This mask is also light in weight, has resistance of not more than 3.5 mm (H₂O) to respiration, and is 99.9% effective in removing. fine dust from the air. It is recommended for mass use; the filter lasts for 30 days, on the average, and the respirator for one year. The third half-mask, the U-2K respirator, includes vents for inhalation and exhalation, a headband, and nosepiece. The exterior of the mask is of porous polyurethane and the interior, of thin polyethylene film. These two layers are separated by an effective polymer-fiber filter. Excess moisture: within the mask is eliminated through the exhalation vent. The headband is elastic and adjustable. This mask has a life expectancy of 30 days, depending on conditions, has not more than 6 mm (H2O) resistance to respiration, and is 99.9% effective. These respirators protect against dust only. The RU-60 respirator (not described) is suggested for use with mercurycontaining compounds. The importance of proper mask fit is stressed; the U-2K and Y-62Sh devices both came in three size Cleaning, proper use, and replacement filters and parts for all three are discussed. [WA-50; CBE No. 12]

SUB CODE: 06/ SUBM DATE: none/

Card 2/2 ·



Czechoslovakia/Analytical Chemistry - General Questions, G-1

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 61799

Author: Kobrle, V., Zahradnik, R.

Institutions Home Wotan dyg. prace. , braque

Title: Partition Paper Chromatography of Higher Fatty Acids. II. ration of Unsaturated Fatty Acids

Original

Periodical: Rozdelovaci chromatografie vyssich mastnych kyselin na papire. II. Delemi nemasycenych mastnych kyselin, Chem. listy, 1954,

48, No 11, 1703-1705; Czech

Abstract: To study the separation of unsaturated and saturated acids by the

method of partition paper chromatography vicinal hydroxy- and halogen derivatives of unsaturated acids were prepared and investigated. Values of Rf of dihydroxy-acids differ little from values for saturated acids. Dihalogen derivatives (prepared by treatment with BrJ) have Rf values lower by 0.15-0.28 units than those of unsaturated acids. Listed are Rf values for unsaturated acids

Card 1/2

KOBRLE, Zucka

CZECHOSLOVAKIA/Analysis of Organic Substances.

0-3

Abs Jour

: Referat Zhur - Hhimiya, No 6, 1957, 19704

Author

: Kobrle, Zagradnik.

Inst

Title

: Distributive Chromatography on Paper of Higher Aliphatic

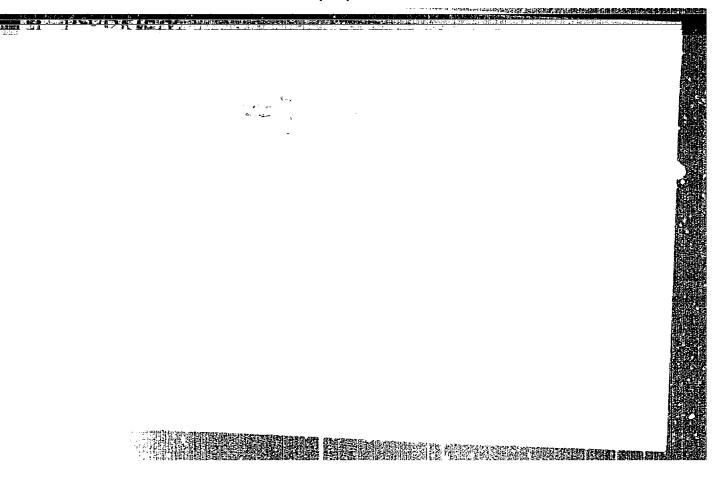
Orig Pub

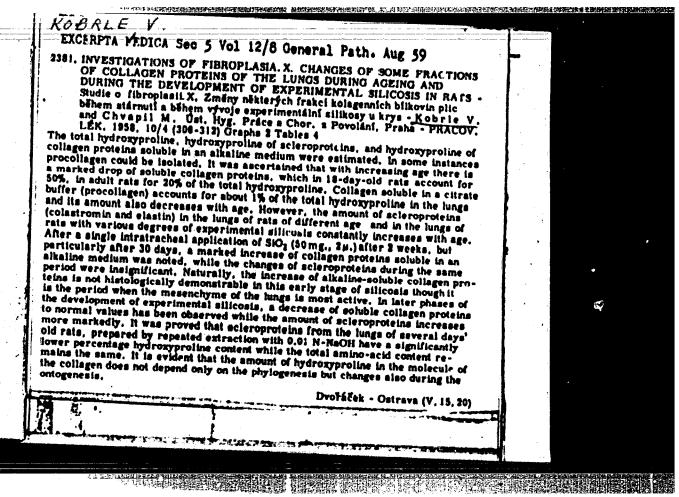
: Sb. chekhosl. khim. rabot, 1955, 20, No 1, 262-264

Abstract

: See RZhKhim, 1956, 58490, 61799.

Card 1/1





Kobele, V.

CZECHOSLOVIKLI/Analytical Chemistry. Analysis of Organic

Abs Jour: Ref Zour-Riim., No 9, 1959, 31113.

Author : Zahradnik, R., Kobrle, V.

Inst

Title : Interaction of mino heids with Carbon Disulfide. V. Paper Chromotograp y and Iontophoresis of Dithio-

Carbamino Carboxylic .cids.

Orig Pub: Collect. ezechosl. chem. commun. 1958, 23, No 8,

1585-1587.

Abstract: No abstract.

Card : 1/1

KOHRLE, V., CHVAPIL, M.

The amount of untrafiltrable and collagen-bound hydroxyproline in different organs of the rat during aging, Physiol. behanoslov, 11 no.3: 243-248 62.

1. Institute of Industrial Hygiene and Compational Diseases, Prague.

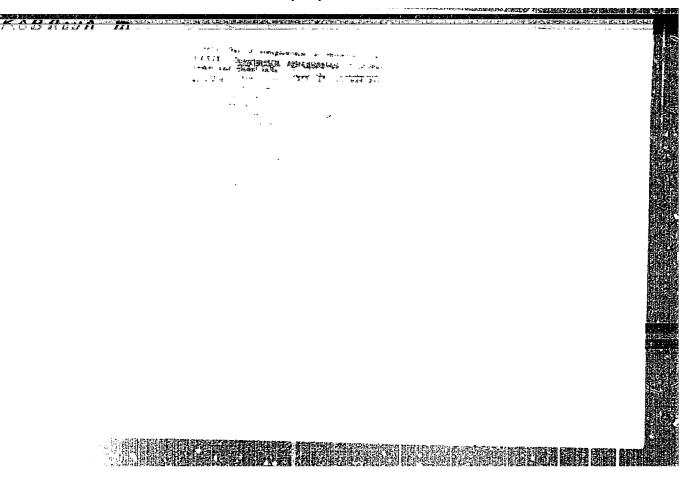
(PROLINE chemistry) (COLLAGEN metabolism)

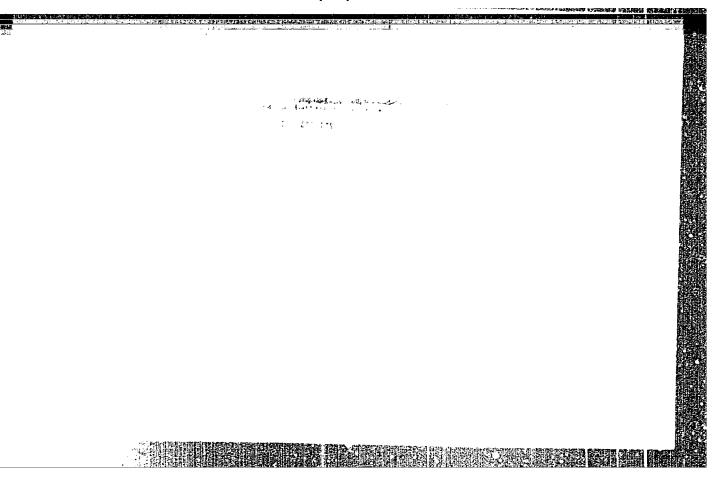
CHVAPIL, M.; KOERLE, V.; CHUCHALOVA, B.

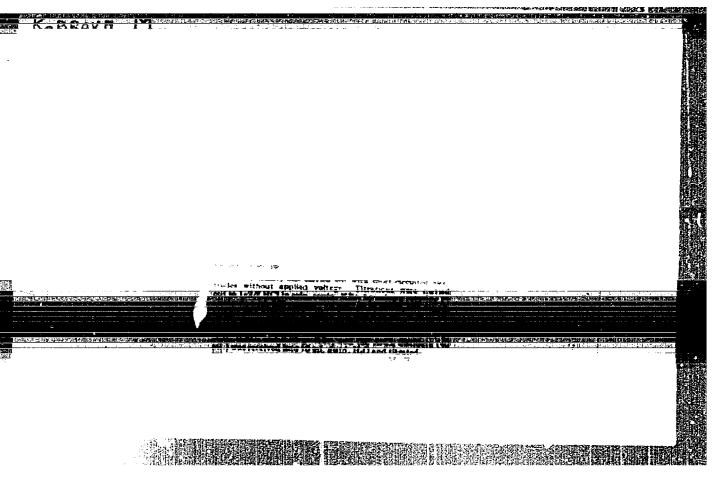
Ultrafiltrable hydroxyproline in the blood serum as the index of the degree of collagen metabolism, Prac. lek. 14 no.2:84-87 Mr '62.

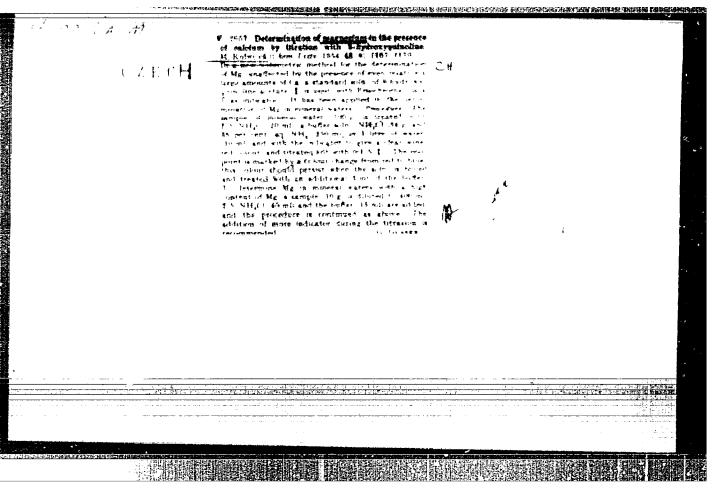
Ustav hygieny prace a chorob z povolani v Praze, reditel prof.
 J. Teisinger.

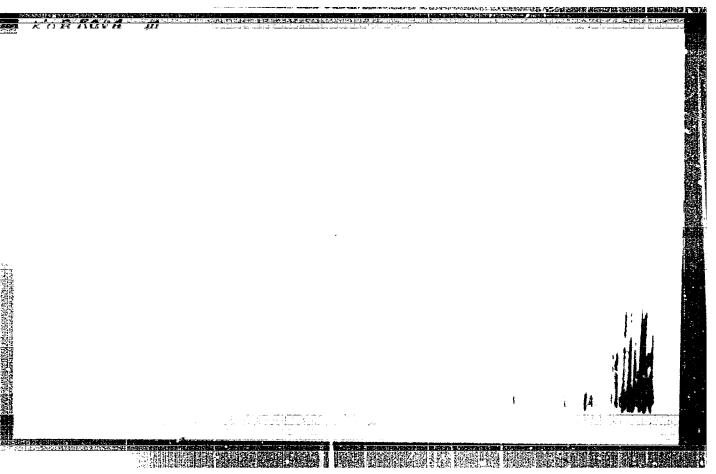
(COLLAGEN metab) (PROLIME rel cpds)











KOBROVA.

M. Kobrort (Rederlandsuperior) CH

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APPROVED FOR RELEASE: 09/18/2001 CIA-RDP8 CZECHOSLOVAKIA/Cosmochemistry, Geochemistry, Hydrochemistry CIA-RDP86-00513R000723420001-

Abs Jour : Ref Zhur - Khimiya, No 3, 1958, No 7494

Author

: M. Kobrova

Inst

: Not Given

Title

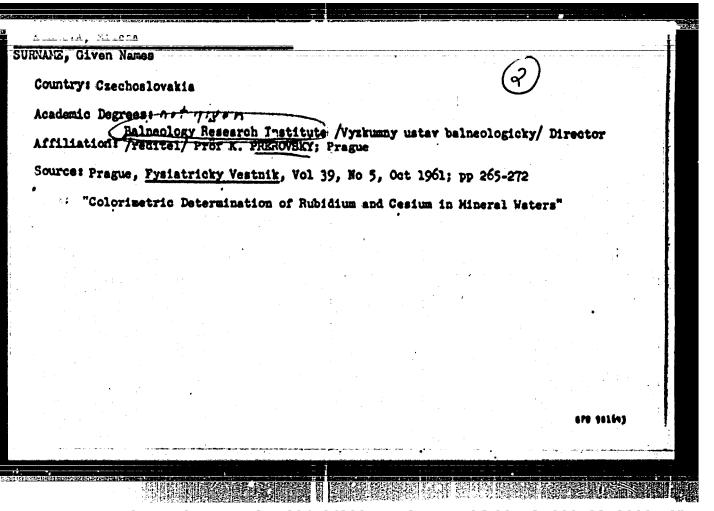
: Classification and Chemical Analysis of Mineral Water from

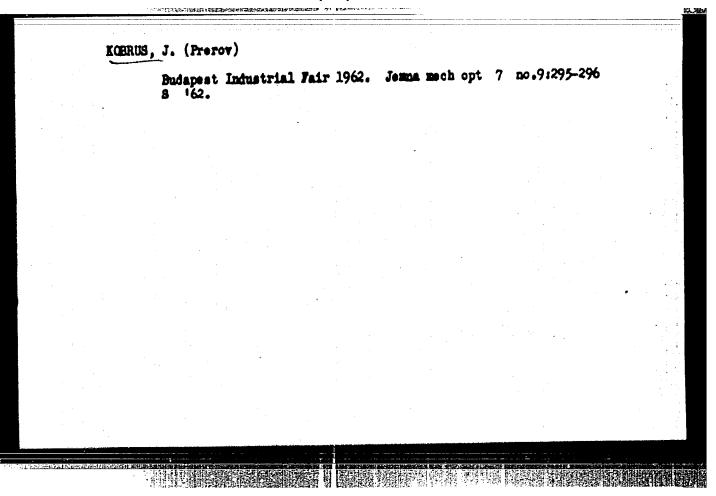
the Hole "Si" in Libverde

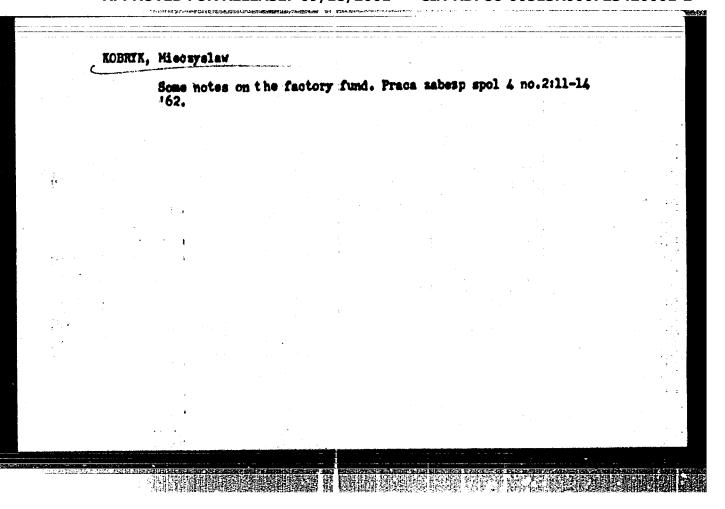
Orig Pub : Fysiatr. vest., 1957, 35, No 3, 160-161

Abstract: A brief report on the properties and composition of water from a hole 65 m deep. Output 43 thousand liters, temperature 10°, density (at 20°) 1.0013, reaction feebly acid, pH 5.8. Composition (in ng/1): Li traces, Na 53.37, K 13.27, Mg 90.96, Ca 130.2, Sr 1.419, Mn 0.049, Fe 23.84, total of cations 317.6, Cl 8.78, £04 10.38, HPO4 0.483, HASSO4 0.625, HCO3 1050, anions total 1070, H28103 92.23.

Card : 1/1







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KOBRYK, Misesyslaw

Distribution principles for the factory labor fund in the light of the resolutions of the 16th Plenum of the Central Council of Trade Unions. Prace sabosp spol 5[i.e.4] no.6:48-50 Je 162.

APPROVED FOR RELEASE: 09/18/2001 CIA-RDP86-00513R000723420001-2"

CERNACEK, J.; KOBSA, K.; PODIVINSKY, F.

Use of paired activity of the hemispheres in rehabilitation of hemiplegics. Cosk. neurol. 27 no.1:17-23 Ja*64.

1. Oddelenie klinickej elektrofysiologie Ustavu experimentalnej mediciny SAV v Bratislave a Neurologicka klinika Lekarskej fakulty UK v Bratislave.

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TOPIC TAG	S: electron spin, gravit	tation field, quantum ele	ctrodynamics
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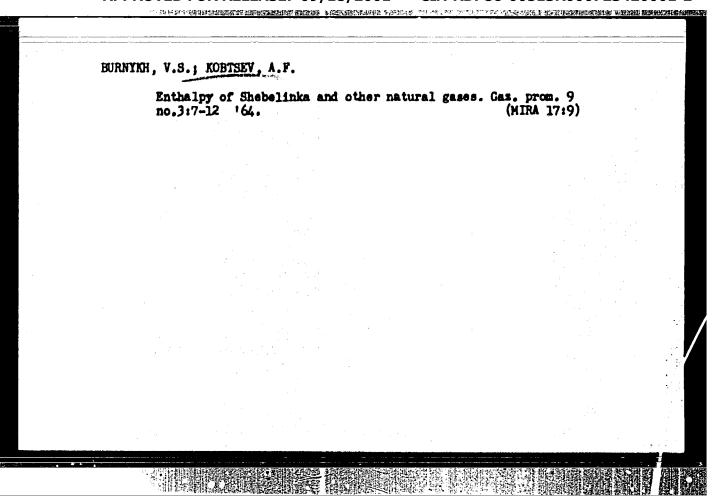
USER/Elec	tron	ics - Automatic radio switches
Card 1/1		Pub. 133 - 16/19
Authors		Vinokurov, B. K., technician; and Kobseev, A. A., radio mechanic
Title	•	Automatic switching for the RK-0.5 transmitter-receiver
Periodical	•	Vest. svyazi 4 (181), page 30, Apr 1955
bstreet	•	A device for the automatic switching of the RK-0.5 radio receiver- transmitter is described. A circuit diagram of the set is given. The automatic switch consists of a series of relays.
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GRIGOR'YEV, V.V.; ZAKREVSKIY, V.S.; BURNYKH, V.S.; KOBTSEV, A.F.; TKACHENKO, M.F.

Hydraulic efficiency of Donets gas pipelines. Gas. delo no.8: 25-29 '64. (MIRA 17:9)

1. Donetskoje upravlenije magistral'nykh gazoprovo'ov i Ukrainskiy filial Vsesoyusnogo nauchno-issledovatel'skogo instituta prirodnogo gaza.



KOBISHV, H. F.

Kobtsev, M. F. - "Investigation of Fodder Regions of Various Types in Terms of Highly Productive Cows of the Alatau Breed." Min Higher Education USSR. Alma-Ata Zooveterinary Inst. Alma-Ata, 1956 (Dissertation for the Degree of Candidate in Agricultural Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

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KOBTSEV, P.F., veterinarnyy vrach

Ridding a poultry farm of tuberculosis. Veterinariia 40 no.10:5-6 0'63. (MIRA 17:5)

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Elements made of cement wood in ground-level structures of main pipelines. Stroi. truboprov. 7 no.10:29-30 0 '62.

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1. Trest Promstroymaterialy, Lyubertsy.
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S/185/60/005/001/007/018 A151/A029

AUTHORS:

Nekrasov, M.M.; Kobtsev, Yu.D.

TITLE:

Non-Linear Ferro-Electric Systems with Various Curie Temperatures

PERIODICAL: Ukrayins'kyy Fizychnyy Zmurnal, 1960, Vol. 5, No. 1, pp. 75 - 78

TEXT: In the binary systems, the Curie point is not expressed very sharply (there is only a Curie zone). This shows that an admixture of a ferro-electric component (i.e., BaSnO2) decreases the ferro-electric properties (Refs. 3,4,). Therefore, ternary systems were taken for investigation in this work. (Ba (Ti, Sn, Zr) 03). On the basis of the ternary systems there are more possibilities to produce a sharply nonhomogeneous inner field by means of selecting components which compensate the voluminal electro-striction in the case of a more favorable packing of the system. This article investigates the properties of ternary systems based on Ba (Ti_{0.75}, Sn_{0.1} Zr_{0.15}) 0₃, which under various conditions and procedures of burning can yield a maximum of the dependence $\mathcal{E} = \mathcal{Y}(\mathbf{t})$ from -40) from -40 to + 3°C. Even two temperature maxima of & are possible. In this case (for a variety of samples) the first maximum will be at a temperature of - 40 + - 20%, the second at + 400 + + 410°C. Apart from this, a certain increase in E was noted Card 1/3

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Non-Linear Ferro-Electric Systems with Various Curie Temperatures

at # 80°C. In a lower temperature maximum & reaches a value of the order of 1,500. At 500°C, & reaches a value of the order of 1,750. At a higher temperature the dielectric constant starts dropping. The dependence of dielectric constant temperature was determined on a thermo-dielectric recorder by measuring the cu rent which passes through the sample at a frequency f = 1,000 c/s. The ferre--ceramic samples were placed in a TF-02 ("TH-02") type kiln and fastened to state less steel electrode holders. The measurements of & and tg & [ABSTRACTOR'S NO tgd is the tangent of the angle of dielectric losses within the field of low the peratures were effected by a resonant method on the bridge RFT 1002. The dielectric hysteresis was observed in samples between the upper and the lower Curie point within the whole temperature range. According to the oscillograms of the dielectric hysteresis a number of characteristic values were determined: effective capacitance, differential capacitance, differential nonlinearity, nonlinearity of saturation and the effective nonlinearity. The investigation of the reversible dependence of the dielectric constant of the ternary system was carried out within a wide range of sound frequencies up to 2 ° 10° c/s. The highest change in the reversible dielectric constant (Ref. 2) at a temperature of 18 = 20°C was observed at the tension of the alternating field amounting to 2,500 v/cm. On the Card 2/3

Card 3/3

MEKRASOV, M.M.; KOBTEKV, Yu.D. Nonlinear seignettoelectric systems with several Curic temperatures. Ukr. fis. shur. 5 no.1:75-78 Ja-F '60. (MIRA 14:6) 1. Kiyevskiy politekhnicheskiy institut. (Ferroeleutricity)